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LÜTKEN'S ZOOLOGY.<sup>1</sup>—As respects fullness of detail, and especially the illustrations and press-work, this compact volume makes a most favorable impression. The author, Dr. Lütken, has long been known as one of the leading zoölogists of Denmark, and in fact of Europe. He has published copiously on fishes, Crustacea and especially Echinoderms, being one of the first living authorities on the latter group of animals. The Scandinavian naturalists are distinguished for the care and accuracy of their work, and these qualities are without doubt characteristic of the work before us.

The plan of this zoölogy is somewhat like that of Peters and Carus' and Claus' zoölogy, and is designed for the advanced, working zoölogist. It will prove valuable for reference to the American student, especially on account of the admirable wood-cuts, many of which are new, while all have been drawn and engraved with evidently great fidelity. It begins with the vertebrates and ends with the Infusoria. Over half of the volume is devoted to the vertebrates, and much attention is paid to the ganoids, a strong point with the author, whose restorations of extinct forms are new and valuable. The arthropods and worms are placed above the mollusks, and among the latter appear the tunicates. The Scandinavian naturalists are slow to adopt radical changes in classification, and although we should differ with the author in some taxonomic matters, we congratulate his countrymen at having such an admirable hand-book placed in their hands.

GROTE'S ILLUSTRATED ESSAY ON THE NOCTUIDÆ OF NORTH AMERICA.<sup>2</sup>—This essay relates to the structure and literature of our Noctuidæ, an extensive family of moths which has formed the subject of many papers by Mr. Grote, whose faithful pioneer work on this group has rendered American entomology a lasting service. The notes on Mr. Walker's types in the British Museum are the results of a second examination of that collection. The section entitled "Specimens of North American Noctuidæ" is illustrated with four excellent chromo-lithographs, drawn by A. H. Searle, in London. The book is thoroughly well printed and bound, and is an important addition to our lepidopterological literature.

RECENT BOOKS AND PAMPHLETS.—Mission G. Revoil aux Pays comalis, Faune et Flore. Reptiles et Batrachiens. Par M. Leon Vaillant.

Note sur les Cyprinodon du Groupe du *C. calaritanus*. Par M. H. E. Sauvage. Pl. III. From M. Leon Vaillant.

Report of T. B. Ferguson, Commissioner of Fisheries of Maryland, January,

<sup>1</sup> *Dyreriget*. En Haand-og Lærebog til Brug ved højere Læreanstalter. (Lærebog i Zoologien Nr. 1.) Af Chr. FR. LÜTKEN. Fjerde Udgave. Kjøbenhavn, 1882. 8vo, pp. 699.

<sup>2</sup> *An illustrated essay on the Noctuide of North America*; with "A colony of Butterflies." By AUGUSTUS RADCLIFFE GROTE. London, John Van Voorst, 1882. 8vo, pp. 85. Price 10s. 6d.

1881, with appendix A. An account of experiments in Oyster culture. By J. A. Ryder. From J. A. Ryder.

Zur Würdigung der theoretischen Speculationen über die Geologie von Bosnien. Von Professor Dr. R. Hoernes. 1882. From the author.

Die Stegocephalen aus dem Rothliegenden des Plauen'schen Grundes bei Dresden. Von Hermann Credner in Leipzig. III Theil., 1882. From the author.

Rapport sur la Marche du Musée Géologique Vaudois en 1881. Suivi de la Classification Pétrogénique adoptée du Musée. Par E. Renevier. Avril, 1882. From the author.

Humboldt Library, No. 29. Facts and Fictions of Zoölogy. By Andrew Wilson, Ph.D., 1882. From the author.

On the Origin and Development of the existing Horses. By Jacob L. Wortman. Ext. from the Kansas City Review of Science and Industry, April and June, 1882. From the author.

Zur Kenntniss der mittel miocänen Trionyx-Formen Steiermarks. Von R. Hoernes. 1881. From the author.

Säugethier-Reste aus der Braunkohle von Görlach bei Turnau in Steiermark. Von R. Hoernes. From the author.

Address by W. H. Dall, vice-president Section F, before the Section of Biology, American Association for the Advancement of Science, Montreal meeting, Aug. 23, 1882. From the author.

Conference sur l'Unification des Travaux Géographiques. Par M. B. DeChancourtois. 1879. From the author.

Transcription des Noms Géographiques en lettres de l'Alphabet Latin. Par M. B. DeChancourtois. 1878. From the author.

De l'Unification des Travaux Géologiques en general, et particulièrement en ce qui concerne les Figures Conventionnels. Par M. B. de Chancourtois. From the author.

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## GENERAL NOTES.

### BOTANY.<sup>1</sup>

SOME NEW SPECIES OF SPHÆRIACEOUS FUNGI.—The four species here described were found on petioles of *Sabal serrulata*, at Green Cove Springs, Fla., during the winter of 1881-2, by Dr. Martin.

*Diatrypella densa* E. and M.—Perithecia coriaceous, flask-shaped, about 3 mill. in diam., buried in the substance of the matrix, without any distinct stroma or circumscribing line, in elongated clusters of 6-12, the obtuse imperfectly quadrisulcate ostiola raising the epidermis into distinct ridges which appear blackened as if carbonized, and are often split longitudinally along their crest; asci lanceolate, 57-75 × 5½ — 7 μ. Sporidia cylindrical, curved, yellowish, 5½-7 × 1¼ μ.

*Spheria (Anthostomella) leucobasis* E. and M.—Perithecia globose or subelliptical, about ⅓ mill. diam., buried in the matrix in definite groups, above which the epidermis is generally more or less blackened, the discolored patches mostly limited by a well-defined line which does not, however, penetrate deeply; ostiola obtuse, barely piercing the epidermis; asci cylindrical, 75-80 μ long; sporidia uniseriate, elliptical, brown, 11-13 × 5½-7 μ.

The substance of the petiole beneath the clusters of perithecia,

<sup>1</sup>Edited by PROF. C. E. BESSEY, Ames, Iowa.